WATER POLLUTION CONTROL 1977

INDEX

PART 1 — pp. 1 — 130
PART 2 — pp. 131 — 258
PART 3 — pp. 259 — 385
PART 4 — pp. 386 — 538

Page

ABBREVIATIONS 533

ACTIVATED-SLUDGE PROCESS:
Oxidation Processes in Activated Sludge at High Dissolved Oxygen Concentrations 340
The Redox Potential of Activated Sludge .. 415

ADDENDUM 385

ANALYSIS:
Automated Computerized Analysis—The Ultimate Approach to River Basin Management? 402
Detection and Determination of Alkyl Lead Compounds in Natural Waters .. 123
Re-Use of Chloroform 380

ANNOUNCEMENTS 532

ANNUAL CONFERENCE 133

ANNUAL CORPORATE MEETING (FORTY-FOURTH) 252

ANNUAL DINNER 250

BIOLOGICAL FILTRATION:
Trials on the Operation of Biological Filters 75

BOOK REVIEWS:
Biochemical Ecology of Water Pollution, by P. R. Dugan 256
Biological Monitoring of Inland Fisheries. Edited by J. S. Alabaster 524
Ecology of Inland Waters and Estuaries, by G. K. Reid and R. D. Wood .. 257
Effects of Pollutants on Aquatic Organisms, by A. P. M. Lockwood 384
Federalism and Clean Waters, by H. Leiber and B. Rossinoff 130
Identification and Analysis of Organic Pollutants in Water, by L. H. Keith .. 524
Individual Onsite Wastewater Systems. Edited by N. I. McClelland 526
Marine Ecology and Oil Pollution. Edited by J. M. Baker 385
Methane; Planning a Digester, by P-J. Meynell 524
Nitrogen and Phosphorus Food Production, Waste and the Environment. Edited by K. S. Porter 129
Sewage Treatment in Hot Climates, by D. Mara 129
The Control of Oil Pollution. Edited by J. Wardley-Smith 526
The Design and Operation of Small Sewage Works, by D. Barnes and F. Wilson .. 385
The Law of Rivers and Watercourses (3rd Edition), by A. S. Wisdom 384
The Thames Transformed, by J. Harrison and P. Grant 256
Wastewater Treatment Technology, by J. W. Patterson 129
X-ray Fluorescence Analysis of Environmental Samples. Edited by T. G. Dzubay 525

CORRECTIONS 128, 257

COUNCIL, CONSTITUTION OF, 1977–78 531

CROLL MEMORIAL LECTURE 138

DIPLOMA EXAMINATION:
Announcement 532

DISSOLVED OXYGEN CALCULATOR:
Announcement 532

EAST ANGLIAN BRANCH:
Annual Report 1976–77 527

EAST MIDLANDS BRANCH:
Annual Report 1976–77 527

EQUIPMENT:
Standardization for Water Pollution Control Works 173
The Equipment Requirements of Water Authorities: a BWETPA View .. 182

FELLOWS, ANNOUNCEMENT OF ELECTION .. 133

IMPERIAL/METRIC CONVERSION FACTORS .. 534, 535

INDUSTRIAL EFFLUENT TREATMENT:
Industrial Effluent Control and Charges .. 192

INDUSTRIAL WASTE DISPOSAL:
Pilot-Scale Studies of the Leaching of Industrial Wastes in Simulated Landfills 468
The Development of Regional Industrial Waste Processing Centres 67
Toxic Waste Disposal 30

MANAGEMENT:
Multifunctional Approach to Pollution Prevention 22
Whatever Happened to the Sewage Works Manager? 237

METRIC SYSTEM:
Conversion Factors 535
Parameters and Conversion Factors .. 534

MISCELLANEOUS:
A Chloroform Problem at Great Warford and its Solution 459

WATER POLLUTION CONTROL 1977

INDEX

PART 1 — pp. 1 — 130
PART 2 — pp. 131 — 258
PART 3 — pp. 259 — 385
PART 4 — pp. 386 — 538

Page

ABBREVIATIONS 533

ACTIVATED-SLUDGE PROCESS:
Oxidation Processes in Activated Sludge at High Dissolved Oxygen Concentrations 340
The Redox Potential of Activated Sludge .. 415

ADDENDUM 385

ANALYSIS:
Automated Computerized Analysis—The Ultimate Approach to River Basin Management? 402
Detection and Determination of Alkyl Lead Compounds in Natural Waters .. 123
Re-Use of Chloroform 380

ANNOUNCEMENTS 532

ANNUAL CONFERENCE 133

ANNUAL CORPORATE MEETING (FORTY-FOURTH) 252

ANNUAL DINNER 250

BIOLOGICAL FILTRATION:
Trials on the Operation of Biological Filters 75

BOOK REVIEWS:
Biochemical Ecology of Water Pollution, by P. R. Dugan 256
Biological Monitoring of Inland Fisheries. Edited by J. S. Alabaster 524
Ecology of Inland Waters and Estuaries, by G. K. Reid and R. D. Wood .. 257
Effects of Pollutants on Aquatic Organisms, by A. P. M. Lockwood 384
Federalism and Clean Waters, by H. Leiber and B. Rossinoff 130
Identification and Analysis of Organic Pollutants in Water, by L. H. Keith .. 524
Individual Onsite Wastewater Systems. Edited by N. I. McClelland 526
Marine Ecology and Oil Pollution. Edited by J. M. Baker 385
Methane; Planning a Digester, by P-J. Meynell 524
Nitrogen and Phosphorus Food Production, Waste and the Environment. Edited by K. S. Porter 129
Sewage Treatment in Hot Climates, by D. Mara 129
The Control of Oil Pollution. Edited by J. Wardley-Smith 526
The Design and Operation of Small Sewage Works, by D. Barnes and F. Wilson .. 385
The Law of Rivers and Watercourses (3rd Edition), by A. S. Wisdom 384
The Thames Transformed, by J. Harrison and P. Grant 256
Wastewater Treatment Technology, by J. W. Patterson 129
X-ray Fluorescence Analysis of Environmental Samples. Edited by T. G. Dzubay 525

CORRECTIONS 128, 257

COUNCIL, CONSTITUTION OF, 1977–78 531

CROLL MEMORIAL LECTURE 138

DIPLOMA EXAMINATION:
Announcement 532

DISSOLVED OXYGEN CALCULATOR:
Announcement 532

EAST ANGLIAN BRANCH:
Annual Report 1976–77 527

EAST MIDLANDS BRANCH:
Annual Report 1976–77 527

EQUIPMENT:
Standardization for Water Pollution Control Works 173
The Equipment Requirements of Water Authorities: a BWETPA View .. 182

FELLOWS, ANNOUNCEMENT OF ELECTION .. 133

IMPERIAL/METRIC CONVERSION FACTORS .. 534, 535

INDUSTRIAL EFFLUENT TREATMENT:
Industrial Effluent Control and Charges .. 192

INDUSTRIAL WASTE DISPOSAL:
Pilot-Scale Studies of the Leaching of Industrial Wastes in Simulated Landfills 468
The Development of Regional Industrial Waste Processing Centres 67
Toxic Waste Disposal 30

MANAGEMENT:
Multifunctional Approach to Pollution Prevention 22
Whatever Happened to the Sewage Works Manager? 237

METRIC SYSTEM:
Conversion Factors 535
Parameters and Conversion Factors .. 534

MISCELLANEOUS:
A Chloroform Problem at Great Warford and its Solution 459

Page

"Deep Shaft"—Latest Position 441
Enumeration of Enteric Bacteria as an Indicator of Potential Risks of Cross Contamination in Water Authority Vehicle Workshops 373
Fisheries in relation to Other Water Authority Activities 481
History of Sewage Pumping in Britain .. 517
Pilot-Scale Studies of the Leaching of Industrial Wastes in Simulated Landfills 468
The Changing Role of Consultants .. 161
The Equipment Requirements of Water Authorities: a BWETPA View .. 182
The Redox Potential of Activated Sludge.. 415
Toxic Waste Disposal 30
Training in the Water Industry 437
Whither Pollution Control? 327

NORTH EASTERN BRANCH:
Annual Report 1976–77 527

NORTH WESTERN BRANCH:
Annual Report 1976–77 528

OBITUARIES:
Frederick William Allen 254
Val Bolitho 255
Eric Hodgson 382
Joseph Nixon 383

OVERSEAS PRACTICE:
Approach to Pollution Control and Legislation in the USA 277
Pollution Control and Legislation in the Federal Republic of Germany .. 271
Pollution Control and Legislation—The Dutch Approach 263
Sewage Treatment in Developing Countries 65

POLLUTION PREVENTION (See WATER QUALITY MANAGEMENT)

PRESIDENTIAL ADDRESS 5

RESEARCH:
A Chloroform Problem at Great Warford and its Solution 459
A More Precise Method of Determination of Specific Resistance to Filtration .. 377
Load Balancing at Sewage-Treatment Works: The Southampton University Pilot Plant at Millbrook 355
Physico-Chemical Treatment of Sewage and the Coleshill Project 10
Pilot-Scale Studies of the Leaching of Industrial Wastes in Simulated Landfills 468
Re-Use of Chloroform 380

ROYAL COMMISSION ON ENVIRONMENTAL POLLUTION:
The Institute's Evidence on 'Environmental Pollution and Agriculture' .. 505

SCOTTISH BRANCH:
Annual Report 1976–77 528

Page

SEA DISPOSAL OF SEWAGE:
Experience with Radioisotope Tracing in Local Tidal Waters 59

SEVENTY-FIFTH ANNIVERSARY DINNER .. 261

SEWAGE TREATMENT:
"Deep Shaft"—Latest Position 441
Lisnaskea Sewage-Treatment Works .. 332
Load Balancing at Sewage-Treatment Works: The Southampton University Pilot Plant at Millbrook 355
Physico-Chemical Treatment of Sewage and the Coleshill Project 10
Rationalization of Sewage Treatment .. 154
Recent Advances in Sewage Effluent Denitrification:
Part 1 287
Part 2 389
Sewage Treatment in Developing Countries 65
Standardization for Water Pollution Control Works 173
The Effect of Alternative Sludge-Treatment Processes on the Design and Operation of Sewage-Treatment Plants .. 452
The Use of Oxygen to Treat Sewage in a Rising Main 98

SEWAGE WORKS DESIGN:
History of Sewage Pumping in Britain .. 517
Lisnaskea Sewage-Treatment Works .. 332
The Design and Construction of the Martholme Regional Sewage-Treatment Works 493
The Effect of Alternative Sludge-Treatment Processes on the Design and Operation of Sewage-Treatment Plants 452

SEWERAGE:
Sewerage in Rural Areas 423
The Use of Oxygen to Treat Sewage in a Rising Main 98

SLUDGE TREATMENT AND DISPOSAL:
Animal Disease Hazards of Sludge Disposal to Land: Occurrence of Pathogenic Organisms 511
Continuous Thickening of Biological Sludges and the Influence of Stability 86
Oxidation Processes in Activated Sludge at High Dissolved Oxygen Concentrations 340
Sludge Disposal in the North West .. 50
Sludge Disposal Strategy: Processes and Costs 205
The Effect of Alternative Sludge-Treatment Processes on the Design and Operation of Sewage-Treatment Plants 452

SOUTH EASTERN BRANCH:
Annual Report 1976–77 528

SOUTHERN AFRICAN BRANCH:
Annual Report 1976–77 529

	Page
SOUTH WESTERN BRANCH:	
Annual Report 1976–77	529
TIDAL WATERS:	
Experience with Radioisotope Tracing in Local Tidal Waters	59
WATER QUALITY MANAGEMENT:	
An Index System for Classifying River Water Quality	113
Detection and Determination of Alkyl Lead Compounds in Natural Waters	123
Estimating the Qualities of Future Water Supplies	39
Experience with Radioisotope Tracing in Local Tidal Waters	59
Multifunctional Approach to Pollution Prevention	222
Studies of River Water Quality in the Lancashire Tame	301
Whither Pollution Control?	327
WELSH BRANCH:	
Annual Report 1976–77	530
WEST MIDLANDS BRANCH:	
Annual Report 1976–77	530

AUTHORS

	Page
ARGENT, V. A.	511
BAILEY, D. A.	287
BASKERVILLE, R. C.	86
BAYLEY, R. W.	205
BISHOP, G.	423
BOON, A. G.	98
BOTTOMLEY, M. K. V.	459
BROWN, D.	459
BROWN, P.	340
BURLEY, M. J.	205
BURROUGHES, D. A.	182
BURROWS, M. G.	415
CHADWICK, D.	493
CLOUGH, G. F. G.	10, 452
COLEMAN, A. K.	67
COLLINSON, B.	389
COOPER, P. F.	287, 389
DART, M. C.	192
DREW, E. A.	287
EMSLIE-SMITH, M.	511
FISHER, R. A.	59
FORSTER, C. F.	98
FRANCIS-EWEN, R. W.	380
GARLAND, J. H. N.	301
GRAY, R.	30
GREEN, M. K.	389
HARRINGTON, P. W	437
HELLIWELL, P. R.	355
HEMMING, M. L.	441
HUNT, P. C.	481
JAMES, J. E.	154
JARVIE, A. W. P.	123
JONES, F.	373
JONES, J. G.	98, 402
KERSHAW, M. A.	138
KIRBY, T. H.	423
LEROF, H. E.	271
LESTER, W. F.	327
LLOYD, D. O.	173
LOCKYEAR, C. F.	86
LUMB, C.	459
MARKALL, R. N.	123
MICHAELSON, A. P.	50
NEWCOMBE, S.	98
NEWTON, J. R.	468
OAKLEY, H. R.	161
OUSBY, J. C.	441
PARSONS, T. V.	59
PICKFORD, J.	65
PLOWRIGHT, D. R.	441
POTTER, H. R.	123
PULLEN, K. G.	75
RAVEN, T. W.	222
REED, R. J. R.	355
RICHARDSON, D.	493
ROBERTS, P. D.	493
ROLLEY, H. L. J.	301
ROSS, S. L.	113
SANDERSON, W. I. D.	332
SCHELTINGA, H. M. H.	263
SHABI, F. A.	340
SKELLETT, C. F.	98
STANBRIDGE, H. H.	517
STAYNES, T. M.	237
SYMES, G. L.	50
THOMAS, E. V.	287
WAGNER, V. G.	277
WALKER, J.	441
WARN, A. E.	39
WATSON, D. C.	373
WHITE, M. J. D.	86
WUHRMANN, K. A.	377
WYATT, K. L.	340